

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims:**

1. (Original) A method for displaying results of a computer aided detection (CAD) analysis of a digital image, the method comprising:
  - i) analyzing the digital image using CAD analysis to identify one or more CAD-detected abnormalities;
  - ii) generating one or more coded descriptors for said CAD-detected abnormalities wherein said coded descriptors provide information on one or more criteria used by said CAD analysis to identify said CAD-detected abnormalities; and
  - iii) displaying said digital image with the one or more coded descriptors.
2. (Original) The method as claimed in claim 1 wherein said digital image is a digitized image of an X-ray film.
3. (Original) The method as claimed in claim 1 wherein said digital image is a digital mammogram.
4. (Currently Amended) The method as claimed in ~~any one of~~ claim 1 ~~to 3~~ further comprising visually analyzing said digital image to identify one or more user-detected abnormalities, said visual analysis being performed before said step of displaying and wherein said user-detected abnormalities are re-assessed based on said information provided by said coded descriptors.
5. (Original) The method as claimed in claim 4 wherein said digital image is a digitized image of an X-ray film and wherein said visual examination is performed on said X-ray film.

6. (Currently Amended) The method as claimed in ~~any one of~~ claim 1 ~~to 3~~ further comprising visually analyzing said digital image to identify one or more user-detected abnormalities said visual examination being performed with said coded descriptors being displayed simultaneously such that a user can refer to said coded descriptors while performing said visual analysis.

7. (Original) The method as claimed in claim 6 wherein said digital image is a digitized image of an X-ray film and wherein said visual examination is performed on said X-ray film.

8. (Original) The method as claimed in claim 1 wherein said one or more coded descriptor displayed in the image is selected by a user.

9. (Currently Amended) The method as claimed in ~~any one of~~ claim 1 ~~to 8~~ wherein said coded descriptors also provide information on probability that said CAD-detected abnormalities are indicative of a disease state.

10. (Currently Amended) The method as claimed in ~~any one of~~ claim 1 ~~to 9~~ wherein said one or more coded descriptors is selected from visual markers, alpha-numeric information or a combination thereof.

11. (Original) The method as claimed in claim 10 wherein the alpha-numeric information is based on Breast Imaging Reporting and Data System (BI-RADS).

12. (Original) The method as claimed in claim 10 wherein said alpha-numeric information is a sentence describing in medical terms said CAD-detected abnormalities.

13. (Original) The method as claimed in claim 10 wherein said visual markers comprise border delineations of regions.

14. (Original) The method as claimed in claim 10 wherein said visual markers comprise one or more highlighted feature used by CAD for determining likelihood of abnormality.

15. (Original) The method as claimed in claim 14 wherein said highlighted feature is selected from size, brightness, location, density, number and length of spicules.

16. (Original) The method as claimed in claim 14 wherein said highlighted feature comprise individual calcifications within a micro-calcification cluster.

17. (Original) The method as claimed in claim 10 wherein said visual markers are color coded according to said probability that the CAD-detected abnormalities are indicative of a disease state.

18. (Currently Amended) The method as claimed in claim 17 wherein said visual markers are of a same color and wherein a level of probability is indicated ~~by~~ by a predetermined shade of said same color.

19. (Original) The method as claimed in claim 10 wherein said visual markers can be displayed with varying degrees transparency.

20. (Original) The method as claimed in claim 19 wherein said degrees of transparency to display the visual markers vary dynamically.

21. (Original) A method for identifying abnormalities in a mammogram the method comprising:

i) analyzing said mammogram using Computer Aided Detection (CAD) analysis to produce CAD results;

ii) displaying said mammogram and a corresponding image of said mammogram comprising said CAD results;

iii)visually analyzing said mammogram to identify one or more user-detected abnormalities said visual examination being performed with said corresponding image of said mammogram comprising CAD results being displayed simultaneously such that a user can refer to said CAD results while performing said visual analysis.

22. (Original) The method as claimed in claim 21 wherein said mammogram is a digitized X-ray film.

23. (Original) The method as claimed in claim 21 wherein said mammogram is a digital mammogram.

24. (Original) A system for displaying results of a computer aided detection (CAD) analysis of a digital image said system comprising:

- a digital image source;
- a processor for analyzing said digital image using CAD analysis to identify CAD-detected abnormalities;
- a processor for extracting criteria used in said identification of CAD-detected abnormalities;
- a processor for associating coded descriptors with said criteria and said abnormalities;
- a display for displaying said digital image and said coded descriptors.

25. (Original) The system as claimed in claim 24 wherein said display comprises more than one display area.

26. (Original) The system as claimed in claim 25 wherein a digital image is displayed in a first display area without coded descriptors and said digital image is displayed in a second display area with coded descriptors.

27. (Currently Amended) The system as claimed in ~~any one of~~  
claim 24-26 further comprising a means for displaying an analog X-ray film.